

TRANSFORMER

ABSTRACT OF THE DISCLOSURE

A transformer includes a bobbin. The bobbin includes a first cylindrical member, and a second cylindrical member having a larger diameter than the first cylindrical member. The first cylindrical member and the second cylindrical member are integrally formed in a concentric arrangement with a gap therebetween. A first winding, implemented by an air-core coil, is inserted into the gap between the first and second cylindrical members of the bobbin, and serves as an input winding which allows a large current in association with a low voltage to flow therethrough. A second winding is wound on the second cylindrical member of the bobbin, and serves as an output winding which allows a small current in association with a high voltage to flow therethrough.

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